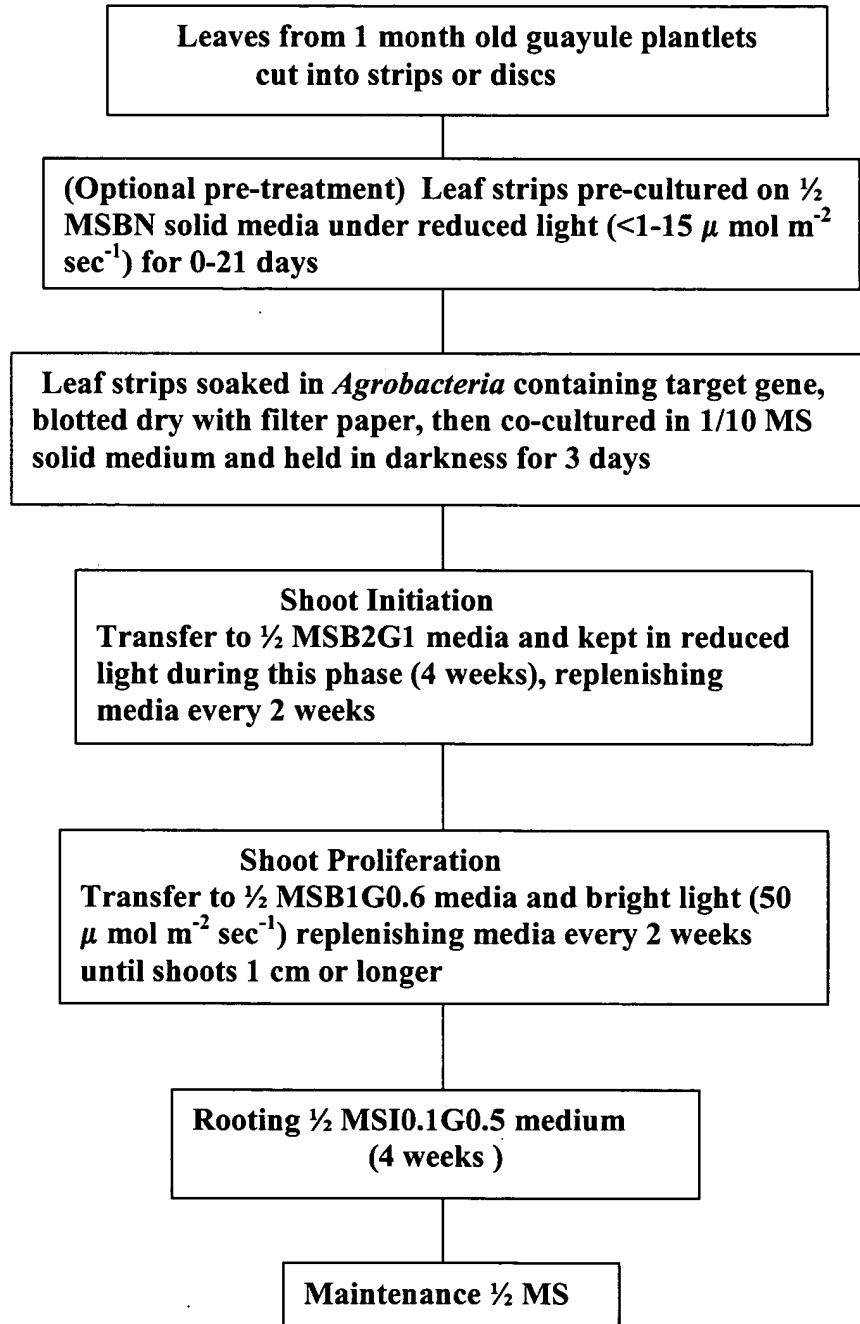


**Guayule Leaf Strips Transformation Protocol**



**FIG. 1**

2/6

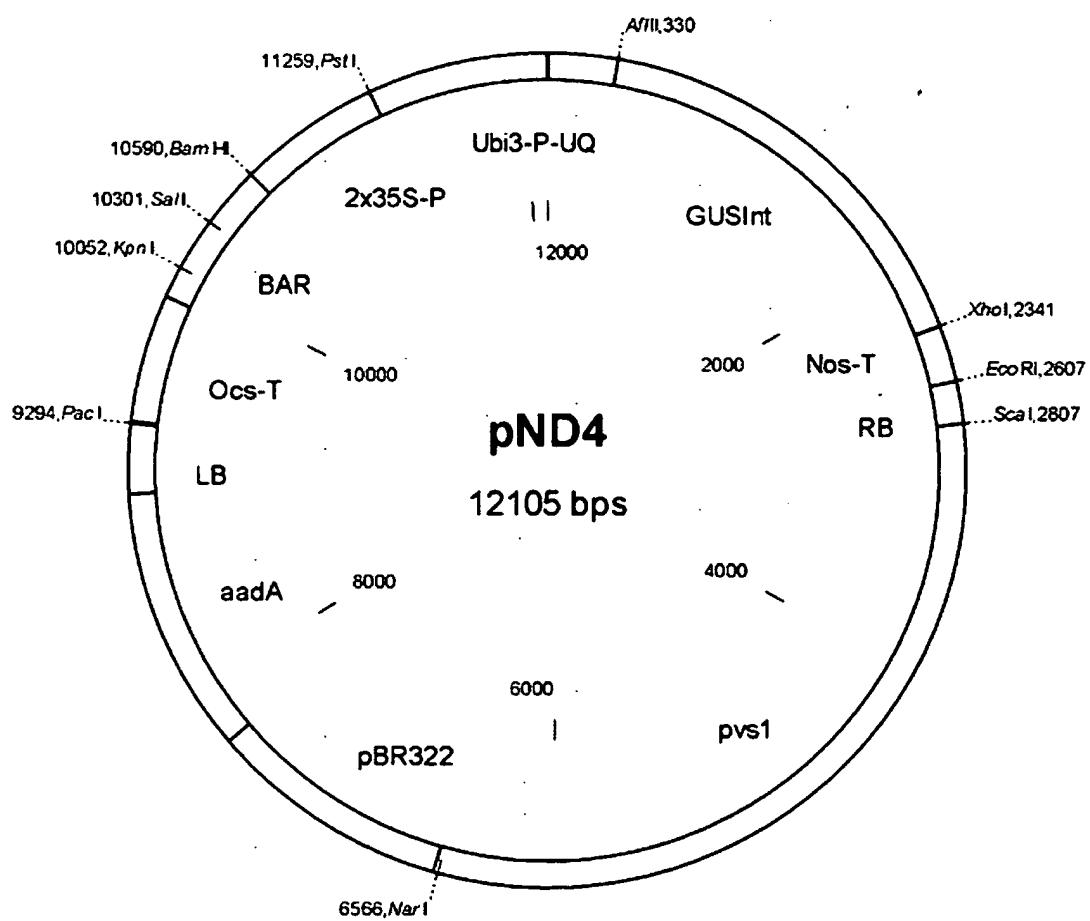


FIG. 2

### Light Intensity in a Plate Stack

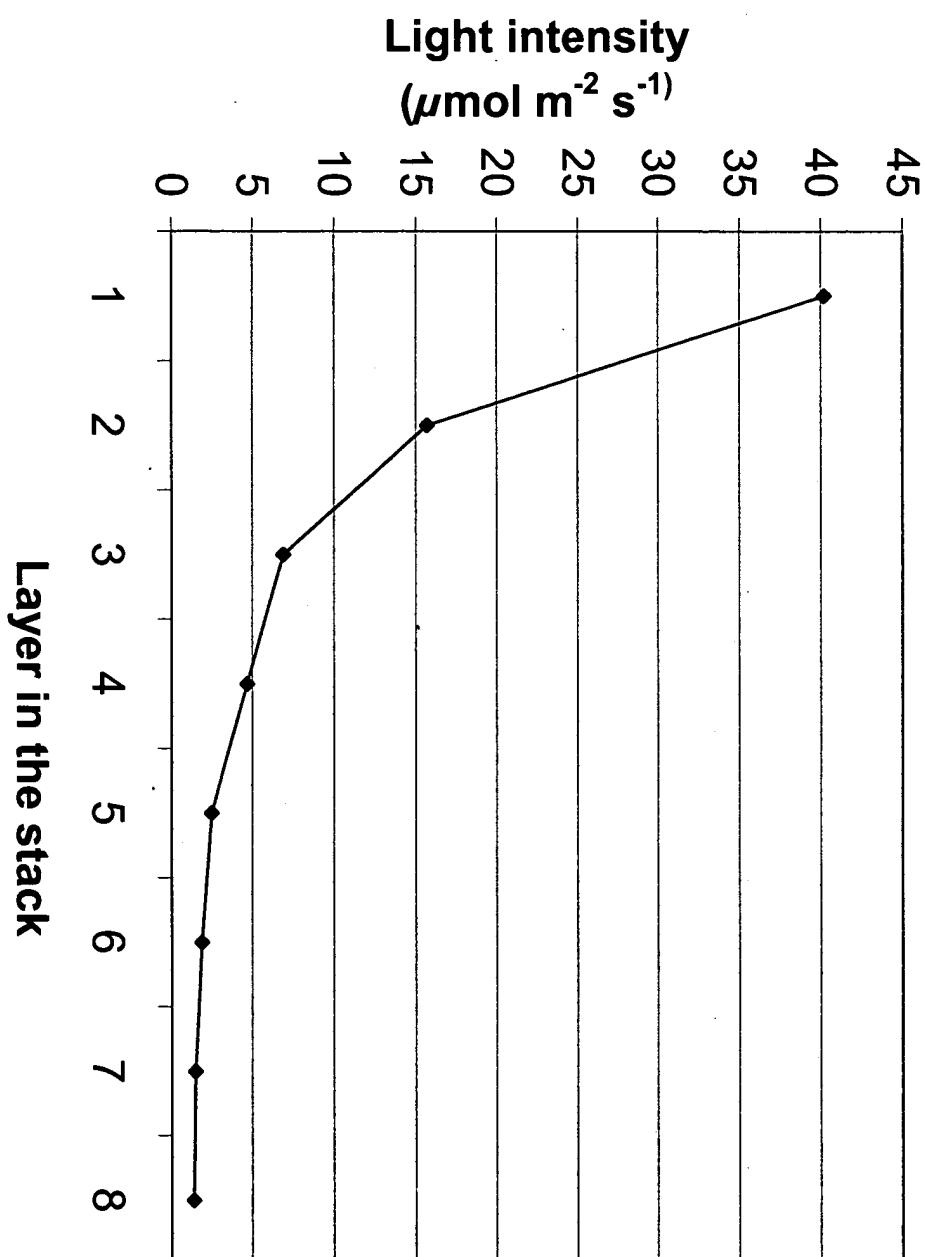
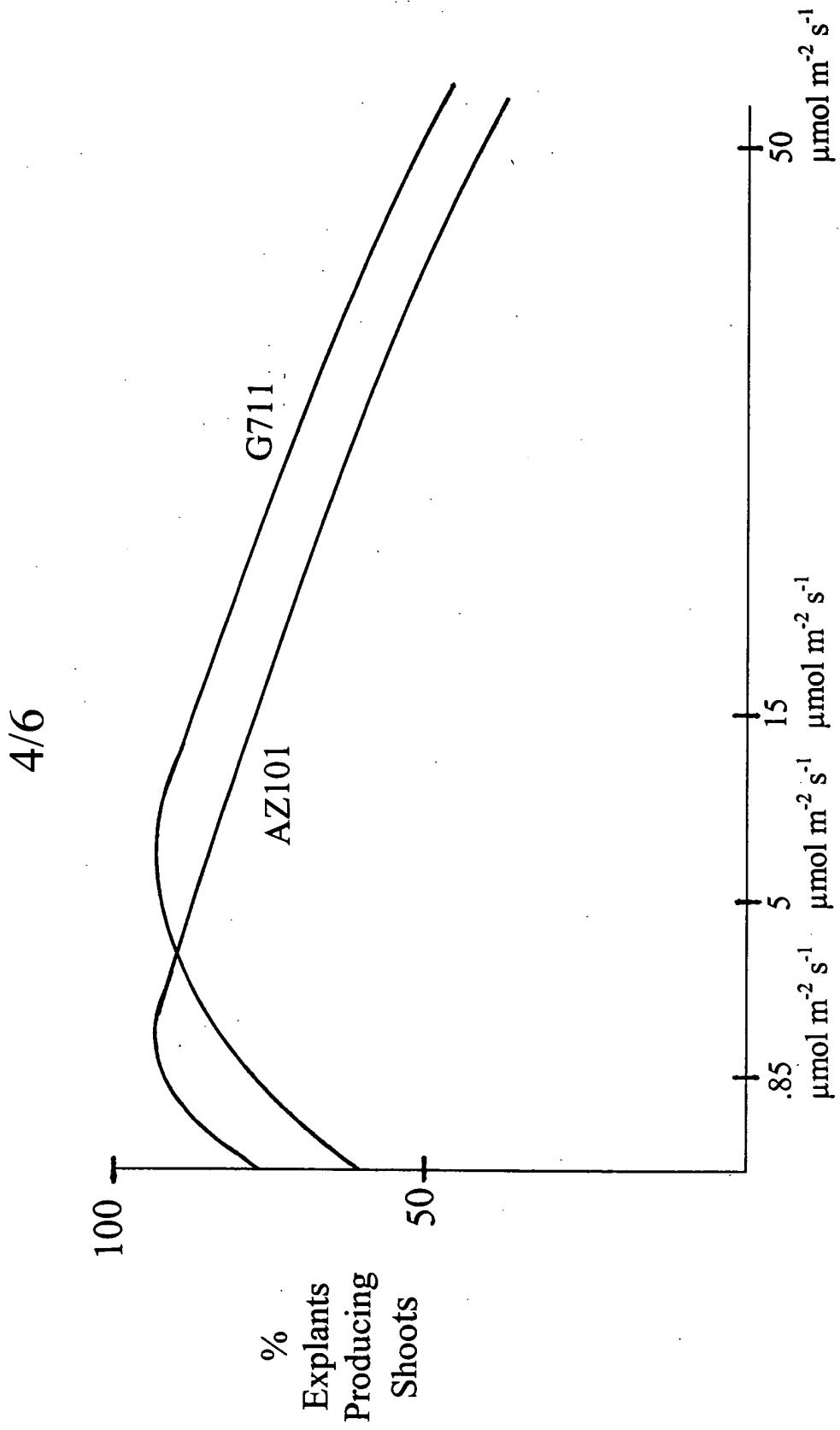


FIG. 3



Light Level During Shoot Regeneration

FIG. 4

5/6

Transformation Efficiency

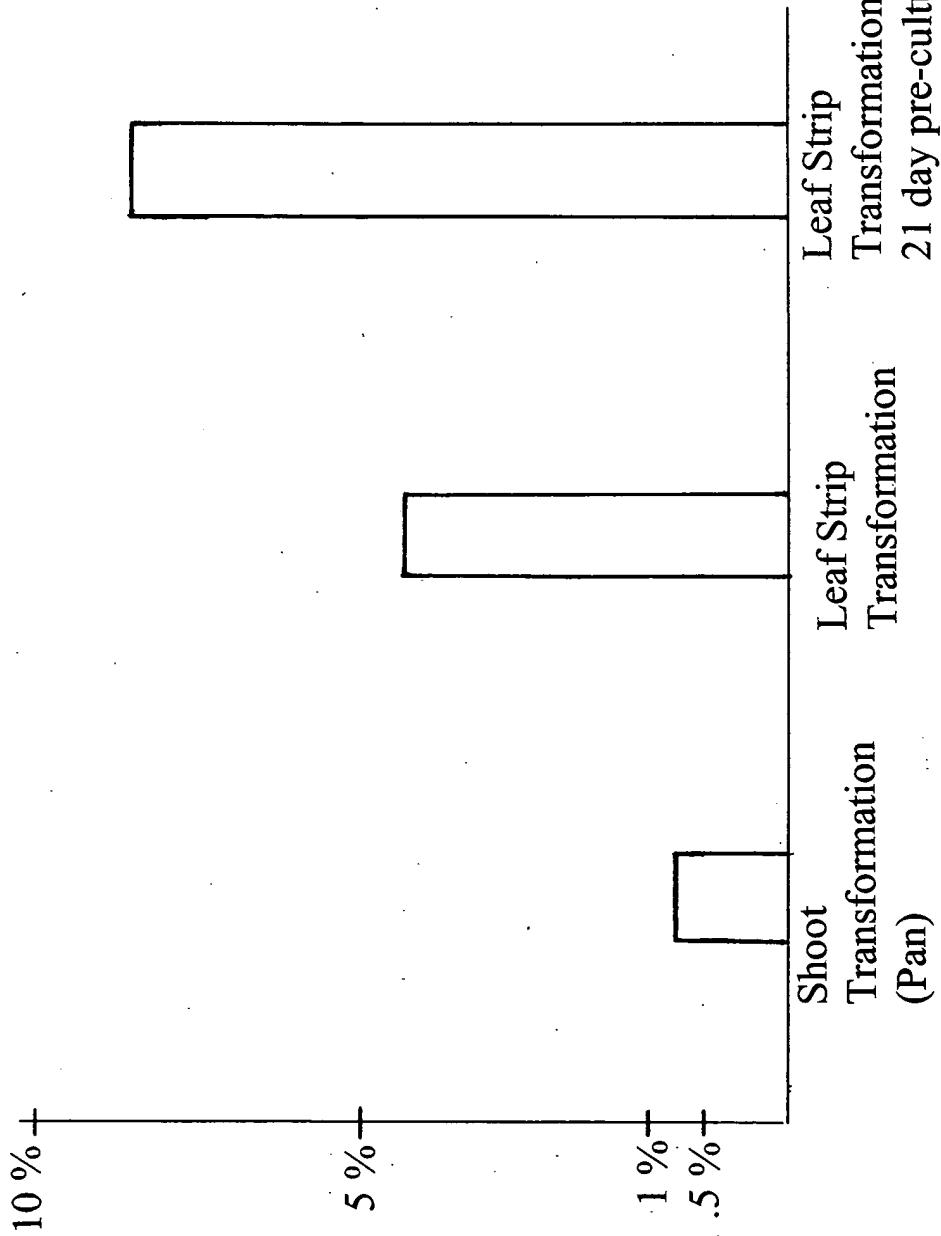


FIG. 5

**1/2MSBN**

|                  |        |
|------------------|--------|
| CAISSON MS Salts | 2.17 g |
| BA               | 0.2 mg |
| NAA              | 2.0 mg |
| Sucrose          | 15 g   |
| pH               | 5.8    |
| Agar             | 8 g    |

\*\*\*\*\*autoclave\*\*\*\*\*

*Add*

|            |      |
|------------|------|
| B5 Vitamin | 1 ml |
|------------|------|

**1/10MSBN**

|                            |         |
|----------------------------|---------|
| CAISSON MS Salts           | 0.433 g |
| BA                         | 2 mg    |
| NAA                        | 0.5 mg  |
| glucose                    | 10 g    |
| MES                        | 100 mg  |
| pH                         | 5.4     |
| (For solid, add Gellan Gum | 7 g)    |

\*\*\*\*\*autoclave\*\*\*\*\*

*Add*

|                    |      |
|--------------------|------|
| B5 Vitamin         | 1 ml |
| Acetosyringon      | 1 ml |
| Pluronic F68 (10%) | 5 ml |

**1/2MSB2G1**

|                  |        |
|------------------|--------|
| CAISSON MS Salts | 2.17 g |
| KNO <sub>3</sub> | 5 g    |
| BA               | 2 mg   |
| Sucrose          | 30 g   |
| pH               | 5.8    |
| Agar             | 8 g    |

\*\*\*\*\*autoclave\*\*\*\*\*

*Add*

|                          |        |
|--------------------------|--------|
| B5 Vitamin               | 1 ml   |
| CaCl <sub>2</sub> (2.5M) | 1 ml   |
| MgSO <sub>4</sub> (1 M)  | 2 ml   |
| Timentin                 | 200 mg |

Glufosinate (50 mg/ml) 20 µl

**1/2MSB1G0.6**

|                  |        |
|------------------|--------|
| CAISSON MS Salts | 2.17 g |
| KNO <sub>3</sub> | 5 g    |
| BA               | 1 mg   |
| Sucrose          | 30 g   |
| pH               | 5.8    |
| Agar             | 8 g    |

\*\*\*\*\*autoclave\*\*\*\*\*

*Add*

|                          |        |
|--------------------------|--------|
| B5 Vitamin               | 1 ml   |
| CaCl <sub>2</sub> (2.5M) | 1 ml   |
| MgSO <sub>4</sub> (1 M)  | 2 ml   |
| Timentin                 | 100 mg |

**RootG0.5**

|                  |        |
|------------------|--------|
| CAISSON MS Salts | 2.17 g |
| IBA              | 0.1 mg |
| Sucrose          | 15 g   |
| pH               | 5.8    |
| Agar             | 8 g    |

\*\*\*\*\*autoclave\*\*\*\*\*

*Add*

|                        |        |
|------------------------|--------|
| B5 Vitamin             | 1 ml   |
| Timentin               | 100 mg |
| Glufosinate (50 mg/ml) | 10 µl  |

**1/2MS**

|                  |        |
|------------------|--------|
| CAISSON MS Salts | 2.17 g |
| Sucrose          | 15 g   |
| pH               | 5.8    |
| Agar             | 8      |

\*\*\*\*\*autoclave\*\*\*\*\*

*Add*

|            |      |
|------------|------|
| B5 Vitamin | 1 ml |
|------------|------|